

## DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **SYSTEM AND METHOD FOR CONSTRAINING A GRAPHICAL HAND FROM PENETRATING SIMULATED GRAPHICAL OBJECTS** the specification of which

(check  
one)

☐ is attached hereto.

☒ was filed on November 3, 1999  
Application Serial No. 09/432,362  
and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>09/076,617</u>	<u>May 12, 1998</u>	<u>Pending</u>
(Application Serial No.)	(Filing Date)	(Status)

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional applications listed below:

<u>60/106,904</u>	<u>November 3, 1998</u>
(Application Serial No.)	(Filing Date)

File No. A-67163/RMA

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first  
or sole

James F. Kramer

Inventor's signature:

James F. Kramer

Date:

February 1, 2000

Residence:

Palo Alto, California

Citizenship:

UNITED STATES

Post Office Address:

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Stanford, California 94309

Full name of second  
joint inventor:

CHRISTOPHER ULLRICH

Inventor's signature:

CU

Date:

Feb 1 2000

Residence:

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Citizenship:

UNITED STATES

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San Francisco, California 94144

1002795

Attorney Docket No. **IMMR-055/00US (new)**  
**VTI010A (old)**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of : **KRAMER et al.**

Serial No.: 09/432,362

Examiner: Harrison, Chante E.

Confirmation No.: 9940

Art Unit: 2672

Filed: November 3, 1999

For: **SYSTEM AND METHOD FOR CONSTRAINING A GRAPHICAL HAND FROM  
PENETRATING SIMULATED GRAPHICAL OBJECTS**

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Commissioner for Patents  
Washington, D.C. 20231

**REVOCATION AND NEW POWER BY ASSIGNEE  
AND STATEMENT UNDER 37 C.F.R. §3.73(b)**

The Assignee (Immersion Corp.) of the entire right, title, and interest in the above-identified application hereby revokes all previously granted powers and grants the registered practitioners of Cooley Godward LLP included in the Customer Number (1) and the registered practitioners of Immersion Corporation included in Customer Number (2), provided below, power to act, prosecute, and transact all business in the U.S. Patent and Trademark Office in connection with this application, any applications claiming priority to this application, and any patents issuing therefrom.

The Assignee certifies that to the best of its knowledge and belief it is the owner of the entire right, title, and interest in and to the above-identified application as evidenced by:

- ☒ [X] An assignment document, a copy of which is enclosed herewith;
- ☐ [] An assignment previously recorded in the U.S. Patent and Trademark Office at Reel/Frame \_\_\_\_\_/\_\_\_\_\_.

Please change the attorney docket number of the above application to:

**IMMR-055/00US**

Attorney Docket No. **IMMR-055/00US (new)**

**VTI010A (old)**

Serial No. 09/432,362

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Please direct all telephone calls and correspondence to:

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Reston, VA 20190-5656  
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CUSTOMER NUMBER (1): 22903

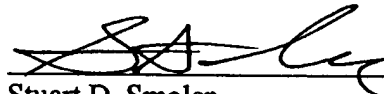
CUSTOMER NUMBER (2): 34300

Pursuant to 37 CFR § 3.73(b)(2)(i), the undersigned is authorized to act on behalf of the assignee.

Date:

3/18/2003

Signature:



Stuart D. Smolen  
Director of Intellectual Property  
Immersion Corporation

## ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

Whereas Virtual Technologies, Inc., a California corporation with a place of business at 801 Fox Lane, San Jose, CA 95131-1601, owns all right, title and interest to certain new and useful improvements for which have been executed applications for United States Letters Patents as set forth in the patents and patent applications listed in the attached APPENDIX A.

The undersigned duly authorized representative of Virtual Technologies, Inc. hereby:

- 1) Sell(s), assign(s) and transfer(s) to Immersion Corporation, a Delaware corporation having a place of business at 801 Fox Lane, San Jose, CA 95131, (hereinafter referred to as "ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, application(s) (including foreign applications) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the patents and patent applications listed in the attached APPENDIX A.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said applications or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said applications and patents, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications and patents.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that Virtual Technologies, Inc. has not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Virtual Technologies, Inc.

Victor Viegas  
Signature

Victor Viegas  
Printed Name

Chief Financial Officer  
Title

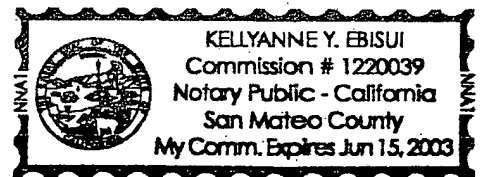
August 19, 2002  
Date

State of California )  
County of Santa Clara )  
\_\_\_\_\_ )

On this 19<sup>th</sup> day of August, in the year 2002, before me, Kellyanne Y. Ebusui,  
Notary Public, personally appeared Victor Viegas, ~~personally known to me or~~ proved to me on  
the basis of satisfactory evidence to be the person whose name is subscribed to the within  
instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized  
capacity(ies), and that by his/~~her~~ signature on the instrument the person, or the entity/~~ies~~ upon  
behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Kellyanne Y. Ebusui



(SEAL)

### APPENDIX A

Title	Application/Patent No.	Filing/Issue Date
Force Feedback and Textures Simulating	5,184,319	February 2, 1993
Force Feedback and Textures Simulating	07/929,895	August 10, 1992
Force Feedback and Textures Simulating	5,631,861	May 20, 1997
Force Feedback and Textures Simulating	6,059,506	May 9, 2000
Force Feedback and Textures Simulating	09/439,766	November 15, 1999
Determination of Kinematically Constrained Multi-Articulated Structures	07/909,570	July 6, 1992
Determination of Kinematically Constrained Multi-Articulated Structures	5,676,157	October 14, 1997
Determination of Kinematically Constrained Multi-Articulated Structures	6,162,190	December 19, 2000
Determination of Kinematically Constrained Multi-Articulated Structures	09/730,056	December 5, 2000
Determination of Thumb Position Using Measurements of Abduction and Rotation	5,482,056	January 9, 1996
Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies	5,592,401	January 7, 1997
Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies	5,930,741	July 27, 1999
Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies	6,148,280	November 14, 2000
Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies	09/712,046	November 13, 2000
Forearm-Supported Exoskeletal Hand-Tracking Device	6,104,379	August 15, 2000

Forearm-Supported Exoskeletal Hand-Tracking Device	09/565,907	May 5, 2000
Goniometer-Based Body-Tracking Device and Method	6,050,962	April 18, 2000
Goniometer-Based Body-Tracking Device and Method	6,428,490	August 6, 2002
Force-Feedback Interface Device for the Hand	6,042,555	March 28, 2000
Force-Feedback Interface Device for the Hand	6,413,229	July 2, 2002
Exoskeleton Device for Directly Measuring Fingertip Position and Inferring Finger Joint Angle	6,110,130	August 29, 2002
Exoskeleton Device for Directly Measuring Fingertip Position and Inferring Finger Joint Angle	09/565,730	May 5, 2000
System and Method for Constraining a Graphical Hand from Penetrating Simulated Graphical Objects	09/432,362	November 3, 1999
System, Method and Data Structure for Simulated Interaction with Graphical Objects	09/675,811	September 29, 2000
Interface for Controlling a Graphical Image	09/837,860	April 17, 2001
Real Time Determination of Simulated Interactions for Large Systems	09/912,434	July 24, 2001
Position Sensor with Resistive Element	09/894,985	June 27, 2001